UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/609,229	06/27/2003	Mohammad H. El-Haj	MS1-1559US	7545

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EXAMINER
WU, QING YUAN

ART UNIT	PAPER NUMBER
2194	

MAIL DATE	DELIVERY MODE
10/18/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

PTOL-90A (Rev. 04/07)

	Application No.	Applicant(s)
Office Action Summary	10/609,229	EL-HAJ, MOHAMMAD H.
	Examiner	Art Unit
	Qing-Yuan Wu	2194

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE <u>3</u> MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) ☒ Responsive to communication(s) filed on <u>26 July 2007</u>.

2a) ☒ This action is **FINAL**.   2b) ☐ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) ☒ Claim(s) *1-7,10,11,13-16,18,20-26,29,30,32-35 and 37* is/are pending in the application.

     4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) ☐ Claim(s) _____ is/are allowed.

6) ☒ Claim(s) *1-7, 10-11, 13-16, 18, 20-26, 29-30, 32-35 and 37* is/are rejected.

7) ☐ Claim(s) _____ is/are objected to.

8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) ☐ The specification is objected to by the Examiner.

10) ☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

     a)☐ All   b)☐ Some * c)☐ None of:

       1.☐ Certified copies of the priority documents have been received.

       2.☐ Certified copies of the priority documents have been received in Application No. _____.

       3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

     * See the attached detailed Office action for a list of the certified copies not received.

WILLIAM THOMSON
SUPERVISORY PATENT EXAMINER

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☐ Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date _____.

4) ☐ Interview Summary (PTO-413) Paper No(s)/Mail Date. _____.

5) ☐ Notice of Informal Patent Application

6) ☐ Other: _____.

DETAILED ACTION

1.   Claims 1-7, 10-11, 13-16, 18, 20-26, 29-30, 32-35 and 37 are pending in the application.

Claim Rejections - 35 USC § 103

2.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in
> section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are
> such that the subject matter as a whole would have been obvious at the time the invention was made to a person
> having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the
> manner in which the invention was made.

3.   Claims 1-7, 10-11, 13-16, 18, 20-26, 29-30, 32-35 and 37 are rejected under 35 U.S.C.

103(a) as being unpatentable over Patterson (U.S. Publication 2003/0236775) in view of Stein et

al. (hereafter Stein) (U.S. Patent 5,896,495).

4.   Patterson and Stein were cited in the previous office action.

5.   As to claim 20, Patterson teaches a method for interacting with a target software product

having user interface functionality, comprising:

executing a script that involves interaction with the user interface functionality of the

target software product [abstract, lines 5-8; pg. 1, paragraph 5]; and

interfacing with a manipulation tool library to carry out at least two functions specified in

the script, wherein the at least two functions include [Fig.3; 440, Fig. 4; pg. 3, paragraph 32]:

searching for a user interface object using a selectable one of a plurality of different

search strategies provided by the manipulation tool library [pg. 3, paragraph 37].

6.   Patterson does not specifically teach event handling for executing a callback function

upon the occurrence of a specified event caused by a firing of the user interface object, the

callback function executing a prescribed function upon the occurrence of the specified event.

However, Stein teaches executing a callback function upon occurrences of an event caused by a

firing of a user interface object and as a result the callback function executing a prescribed

function (i.e. sending a new message as a result of receiving an acknowledgement from the GUI

program that it is ready to process a new message) [Stein, col. 5, lines 1-22 and 43-56; col. 2,

lines 15-57]. It would have been obvious to one of an ordinary skill in the art at the time the

invention was made, to have modified the teaching of Patterson with the teaching of Stein

because the teaching of Stein can further enhances the teaching of Patterson by properly

addressing the synchronization issue with GUI testing as being considered by Stein [Stein, col. 2,

lines 39-57].

7.   As to claim 21, Patterson as modified does not specifically teach interfacing with the

target software product using a window-type interface and an accessibility interface. However,

Patterson disclosed interfacing with the target software product through the graphical user

interface objects and their underlying control functionality [pg. 2, paragraph 29, lines 1-4; pg. 3,

paragraph 37, lines 3-5; pgs.3-4, paragraphs 38-42]. It would have been obvious to one of an

ordinary skill in the art at the time the invention was made, to have modified the teaching of

Patterson to include interfacing with the target software product using various interfaces because

Patterson's disclosure of interfacing with user interface objects would applied to various

interfaces which implicitly interacts/interfaces with the target software.

8.   As to claim 22, Patterson as modified teaches wherein one of the selectable search

strategies is an SQL-type query string search strategy that involves comparing a specified string

with information associated with the user interface object [pg. 3, paragraph 37, lines 9-21; pgs.

3-4, paragraphs 38-40].

9.   As to claim 23, Patterson as modified does not specifically teach wherein one of the

selectable search strategies is a flag-based attribute search strategy. However, Patterson

disclosed a unique name string that contains a predetermined set of properties of a GUI object,

the properties of the GUI object in the unique name are organized such that it is easy to extract

the property names from the string name of the GUI object, and determine the closest matching

GUI object based on the properties matched [pgs. 4-5, paragraphs 49-63]. It would have been

obvious to one of an ordinary skill in the art at the time the invention was made, to have

recognized that the teaching of Patterson involves the comparison of various attribute value and

flag information.

10.   As to claim 24, this claim is rejected for the same reason as claims 22 and 23 above.

11.   As to claim 25, Patterson as modified teaches teach wherein another function of the

manipulation tool library comprises event handling for blocking the execution of the script until

the specified event or a second specified event has occurred within a specified timeout period

[Stein, col. 5, lines 1-22; col. 2, lines 15-57].

12.   As to claim 26, this claim is rejected for the same reason as claim 25 above.

13.   As to claim 29, this claim is rejected for the same reason as claims 20 and 25 above.

14.   As to claims 30 and 32-35, these claims are rejected for the same reason as claims 21-24 and 26 above.

15.   As to claim 37, this claim is rejected for the same reason as claim 20 above.

16.   As to claims 1-7, these claims are rejected for the same reason as claims 20-26 above.

17.   As to claim 10, this claim is rejected for the same reason as claims 1 and 6 above.

18.   As to claims 11 and 13-16, these claims are rejected for the same reason as claims 2-5 and 7 above.

19.   As to claim 18, this claim is rejected for the same reason as claim 1 above.

20.   The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

        U.S. Patent No. 5,640,537 to Jessen et al.

Response to Arguments

21.   Applicant's arguments filed 7/26/07 have been fully considered but are not persuasive.

22.   In the remarks, Applicant argued in substance that:

a.   The Office has not shown that Patterson or Patterson in combination with Stein anticipates or renders obvious "event handling logic configured to monitor a firing of the user interface object and execute a callback function..." as currently amended into claim 1 and other independent claims.

23.   Examiner respectfully traversed Applicant's remarks:

24.   As to point (a), the examiner respectfully disagrees and submits that Stein's teaching of executing callback function upon occurrences of an event caused by a firing of a user interface object and as a result the callback function executing a prescribed function (i.e. sending a new message as a result of receiving an acknowledgement from the GUI program that it is ready to process a new message) [Stein, col. 5, lines 1-22 and 43-56; col. 2, lines 15-57] as cited clearly satisfied the claimed limitation. Therefore, Applicant's argument is not persuasive.

25.   **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after

the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR

1.136(a) will be calculated from the mailing date of the advisory action. In no event, however,

will the statutory period for reply expire later than SIX MONTHS from the mailing date of this

final action.

26.   Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Qing-Yuan Wu whose telephone number is (571) 272-3776. The

examiner can normally be reached on 8:30am-6:00pm Monday-Thursday and alternate Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, William Thomson can be reached on (571) 272-3718. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).
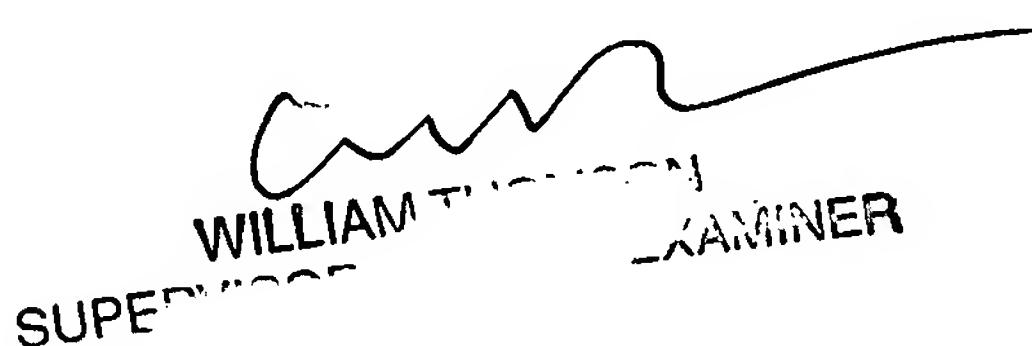
WILLIAM T ... _AMINER
SUPE^...

Qing-Yuan Wu

Examiner

Art Unit 2194